

Datasheet: MCA2194

**BATCH NUMBER 154272**

|                      |                               |
|----------------------|-------------------------------|
| <b>Description:</b>  | MOUSE ANTI FELINE CORONAVIRUS |
| <b>Specificity:</b>  | CORONAVIRUS                   |
| <b>Format:</b>       | Purified                      |
| <b>Product Type:</b> | Monoclonal Antibody           |
| <b>Clone:</b>        | FIPV3-70                      |
| <b>Isotype:</b>      | IgG2a                         |
| <b>Quantity:</b>     | 0.25 mg                       |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                                | Yes | No | Not Determined | Suggested Dilution |
|--------------------------------|-----|----|----------------|--------------------|
| Flow Cytometry                 | ▪   |    |                |                    |
| Immunohistology - Frozen       | ▪   |    |                |                    |
| Immunohistology - Paraffin (1) | ▪   |    |                |                    |
| ELISA                          | ▪   |    |                |                    |
| Immunoprecipitation            |     |    | ▪              |                    |
| Western Blotting               | ▪   |    |                |                    |
| Immunofluorescence             | ▪   |    |                |                    |

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own systems with appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

|                        |   |
|------------------------|---|
| <b>Target Species</b>  | Viral   |
| <b>Product Form</b>    | Purified IgG - liquid   |
| <b>Preparation</b>     | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |
| <b>Buffer Solution</b> | Phosphate buffered saline   |

|                                       |   |
|---------------------------------------|---|
| <b>Preservative Stabilisers</b>       | 0.05% Sodium Azide  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml   |
| <b>Immunogen</b>                      | Coronavirus cocktail.   |
| <b>RRID</b>                           | AB_323968   |
| <b>Specificity</b>                    | <p><b>Mouse anti Feline Coronavirus antibody, clone FIPV3-70</b> reacts with feline infectious peritonitis virus (FIPV) type 1 and 2 and is specific for the nucleocapsid. It is also known to react with canine coronavirus (CCV), pig coronavirus transmissible gastroenteritis virus (TGEV) and ferret coronavirus. Some specific activity has been detected against bovine coronavirus (BCV).</p> <p>Mouse anti Feline Coronavirus antibody, clone FIPV3-70 does not recognize Feline Leukemia virus, Feline Immunodeficiency virus, Feline Calcivirus, Feline Herpes virus, Canine Adenovirus (type 2), Canine Distemper virus, Canine Parvovirus and Canine Parainfluenza virus.</p> <p>It has been reported that clone FIPV3 recognizes the SARS-Cov-2 core protein (<a href="#">Nardacci et al. 2020</a>).</p>  |
| <b>Western Blotting</b>               | <p>Under reducing conditions, MCA2194 detects a specific band of 50-56 kDa that represents the nucleocapsid.</p> <p>MCA2194 detects specific bands at 56 and 46 kDa in reducing gels with CCV as antigen.</p>   |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>1. Kipar, A. <i>et al.</i> (1998) Fatal enteritis associated with coronavirus infection in cats. <a href="#">J Comp Pathol. 119 (1): 1-14.</a></li> <li>2. Kipar, A. <i>et al.</i> (2000) Expression of viral proteins in feline leukemia virus-associated enteritis. <a href="#">Vet Pathol. 37 (2): 129-36.</a></li> <li>3. Michimae, Y. <i>et al.</i> (2010) The First Case of Feline Infectious Peritonitis-like Pyogranuloma in a Ferret Infected by Coronavirus in Japan. <a href="#">J Toxicol Pathol. 23 (2): 99-101.</a></li> <li>4. Suderman, M.T. <i>et al.</i> (2006) Three-Dimensional Human Bronchial-Tracheal Epithelial Tissue-Like Assemblies (TLAs) as Hosts For Severe Acute Respiratory Syndrome (SARS)-CoV Infection <a href="#">NASA/TP-2006-213723</a></li> <li>5. Vogel, L. <i>et al.</i> (2010) Pathogenic characteristics of persistent feline enteric coronavirus infection in cats. <a href="#">Vet Res. 41 (5): 71.</a></li> <li>6. Cony, F.G. <i>et al.</i> (2019) Clinical and pathological aspects of idiopathic pulmonary fibrosis in cats <a href="#">Pesquisa Veterinária Brasileira. 39 (2): 134-41.</a></li> <li>7. Stranieri, A. <i>et al.</i> (2020) Concordance between Histology, Immunohistochemistry, and RT-PCR in the Diagnosis of Feline Infectious Peritonitis <a href="#">Pathogens. 9 (10): 852.</a></li> <li>8. Stranieri, A. <i>et al.</i> (2020) Preliminary investigation on feline coronavirus presence in the reproductive tract of the tom cat as a potential route of viral transmission. <a href="#">J Feline Med Surg. 22 (2): 178-85.</a></li> </ol> |

**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA2194>  
10040

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M366330:200529'

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